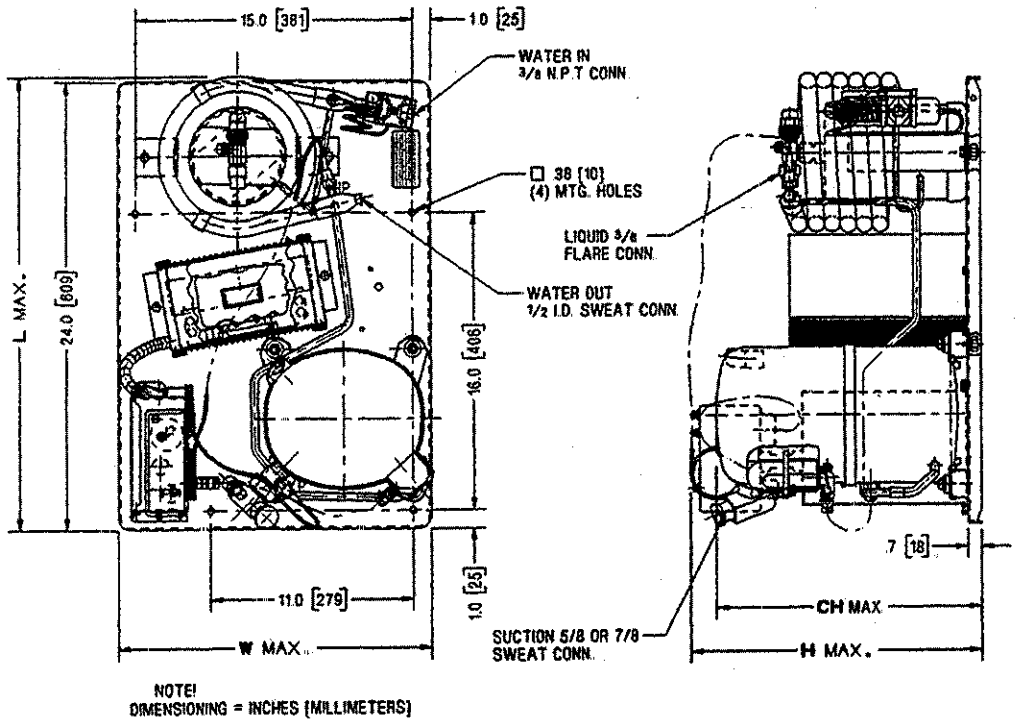
AWA2453ZXDXW

Date: Jan. 10, 1999

Revision 2003

TECUMSEH HERMETIC CONDENSING UNITS

MODEL AWA2453ZXDXW (B/M 2B1119-9) R404A 1 1/4 HP WATER COOLED



NOTE!
DIMENSIONING = INCHES [MILLIMETERS]

Model	Dimensions				Line Connections		Pumpdown 90°F 90% Full	Oil Chg Oz.	Gross Wt. Lbs.
	L	W	H	CH	Suction	Liquid			
AWA2453ZXDXW	24.3	17.0	15.7	14.3	5/8 S	3/8 F	5.1#	38 POE	119
*F=Flare, S=Solder, RF or RS=Rotolock Valve w/Flare or Solder Connections Factory Chrg: 20 psig Nitrogen - MUST BE EVACUATED							Use 3/8" min. pipe size. Water valve inlet 3/8" NPT.		

Performance: Ambient 95°F--Return Gas 40°F--Condenser Water In 75°F--Head 254 psig

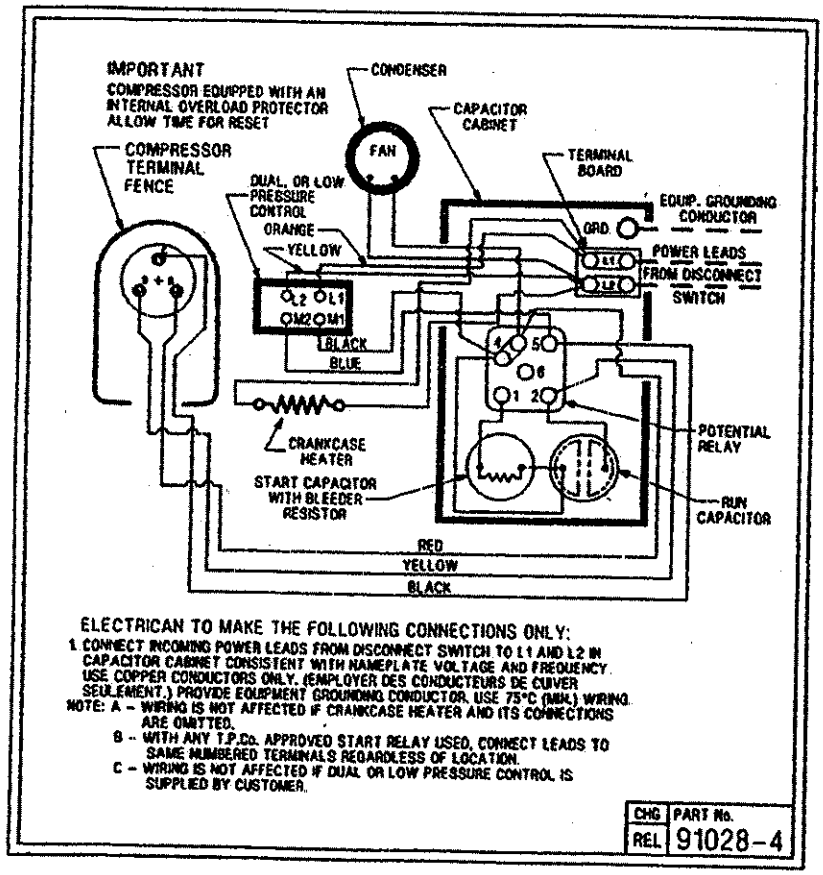
Evaporator Temp °F	-40	-30	-20	-10	0	10
BTU/HR.	1164	2109	3497	5282	7415	9847
Water Usage - gpm	0.3	0.6	0.9	1.4	1.9	2.5
Watts	657	790	962	1160	1369	1575

The water valve should be adjusted to maintain a maximum of 95°F water outlet temperature in order to minimize water scaling within the condenser.

Date: January 2003
Unit Catalog Update

SPECIFICATIONS	**AWA2453ZXDXW**
Nominal Voltage	230/208-1
Unit B/M	2B1119-9
Voltage Range	253 to 187
Min. Circuit Ampacity	11.2
Max. Fuse Size (Amps)	15
Compressor Model	AWA2440ZXD
Comp. Bill of Material	AW610ET-111
RLA/LRA	8.7/73.0
ESP Overload	Internal
ESP Relay	P82965
Capacitor Cabinet	AE1397-031
Start Capacitor	85PS330D17
Rating	145-175MFD/330V
Run Capacitor	85PR370F17/P85E74
Rating	35MFD/370V

Control	84087-2 (Dual)
Fan Motor (OEM)	810M009B47
Fan RLA	.27RLA
Replacement Motor	TFM92
Fan Motor Bracket	57155
Fan Blade	51559-2
Guard/Grill	71085 & 70830-1 (Grill)
Condenser	50812-1
Receiver Tank	51081
Receiver Tank Valve	31547-8 (3/8"F) RL
Suction Rotolock	31531-1 (5/8"S) RL
O' Ring Gasket	30334
Base/Shut Off Valve	56516 (3/8"ID)WRV
Unit Drawing	SU1918-14
Schematic or Elect. Drawing	91028-4


IMPORTANT
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR ALLOW TIME FOR RESET
CONDENSER
CAPACITOR CABINET
FAN
COMPRESSOR TERMINAL FENCE
DUAL, OR LOW PRESSURE CONTROL
TERMINAL BOARD
EQUIP. GROUNDING CONDUCTOR
GRD
ORANGE
YELLOW
POWER LEADS FROM DISCONNECT SWITCH
L2 L1
M2 M1
BLACK
BLUE
5
6
1 2
POTENTIAL RELAY
CRANKCASE HEATER
START CAPACITOR WITH BLEEDER RESISTOR
RUN CAPACITOR
RED
YELLOW
BLACK
ELECTRICAN TO MAKE THE FOLLOWING CONNECTIONS ONLY:
1. CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1 AND L2 IN CAPACITOR CABINET CONSISTENT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
NOTE: A – WIRING IS NOT AFFECTED IF CRANKCASE HEATER AND ITS CONNECTIONS ARE OMITTED.
B – WITH ANY T.P.Co. APPROVED START RELAY USED, CONNECT LEADS TO SAME NUMBERED TERMINALS REGARDLESS OF LOCATION.
C – WIRING IS NOT AFFECTED IF DUAL OR LOW PRESSURE CONTROL IS SUPPLIED BY CUSTOMER.
CHG REL
PART No. 91028-4

Some parts listed may be optional or listed as replacement parts.